

SECTION 2

DISASSEMBLY PROCEDURES

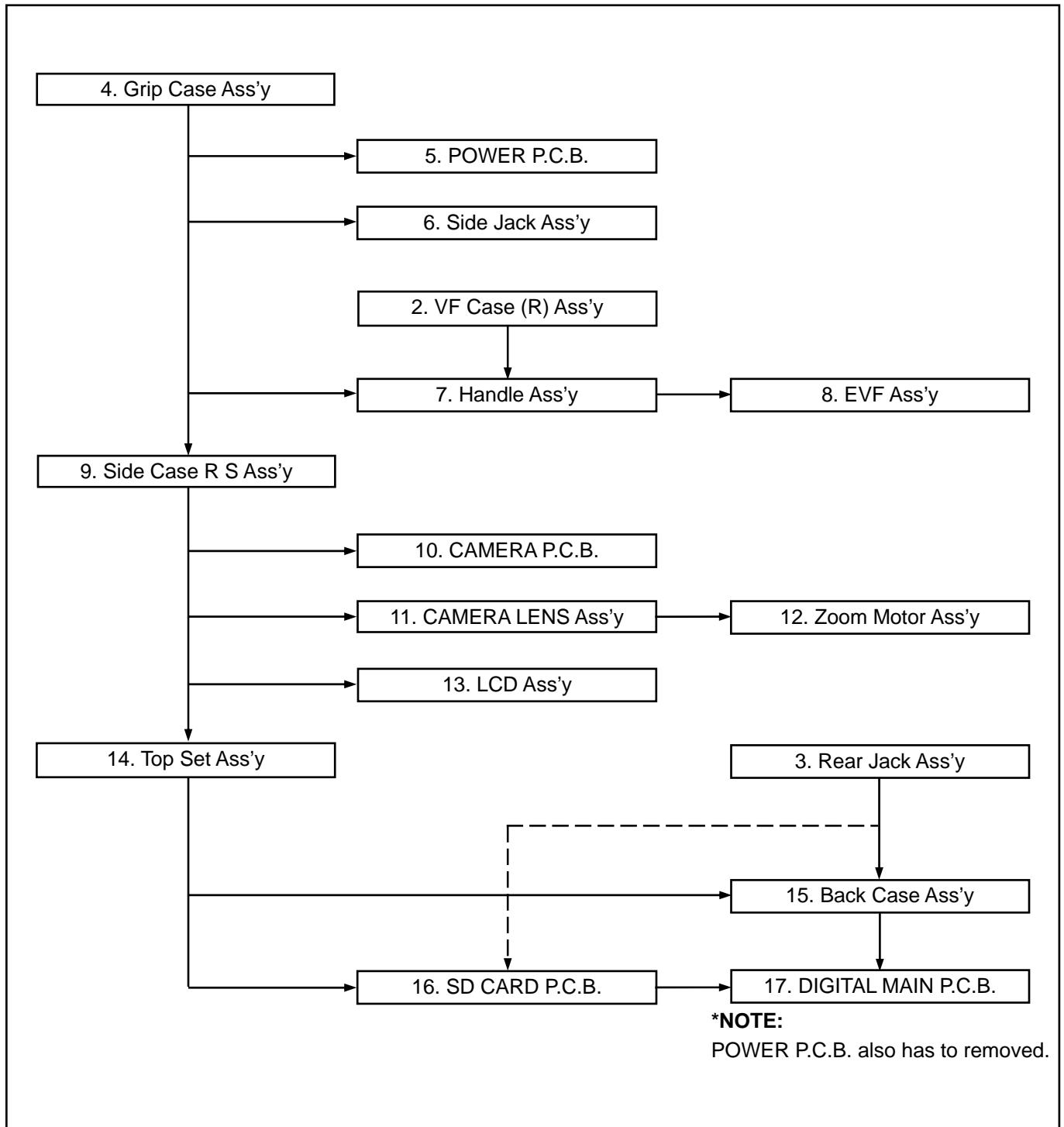
Model No. : **AG-HMC150P/AN, AG-HMC151E, AG-HMC152EN**
AG-HMC153MC, AG-HMC154ER

CONTENTS

1. Disassembly Flowchart.....	DIS-1
2. Removal of VF Case (R) Ass'y.....	DIS-2
3. Removal of Rear Jack Ass'y.....	DIS-2
4. Removal of Grip Case Ass'y.....	DIS-3
5. Removal of POWER P.C.B.	DIS-5
6. Removal of Side Jack Ass'y	DIS-6
7. Removal of Handle Ass'y	DIS-6
8. Removal of EVF Ass'y.....	DIS-8
9. Removal of Side Case R S Ass'y	DIS-9
10. Removal of CAMERA P.C.B.....	DIS-10
11. Removal of CAMERA LENS Ass'y.....	DIS-11
12. Removal of Zoom Motor Ass'y	DIS-16
13. Removal of LCD Ass'y.....	DIS-17
14. Removal of Top Set Ass'y	DIS-18
15. Removal of Back Case Ass'y	DIS-19
16. Removal of SD CARD P.C.B.....	DIS-19
17. Removal of DIGITAL MAIN P.C.B.....	DIS-20

1. Disassembly Flowchart

NOTE: Please put on your hand glove, when you operated disassemble and assemble.



2. Removal of VF Case (R) Ass'y

1. Unscrew the 3 screws (A) and pull VF Case (R) ass'y a little forward as shown in figure 2-1.
2. Disconnect a connector (A) and remove the VF CASE R ass'y as shown in figure 2-1.



Figure 2-1

3. Removal of Rear Jack Ass'y

1. Unscrew the 3 screws (A) and remove the Rear Side Cover as shown in figure 3-1.

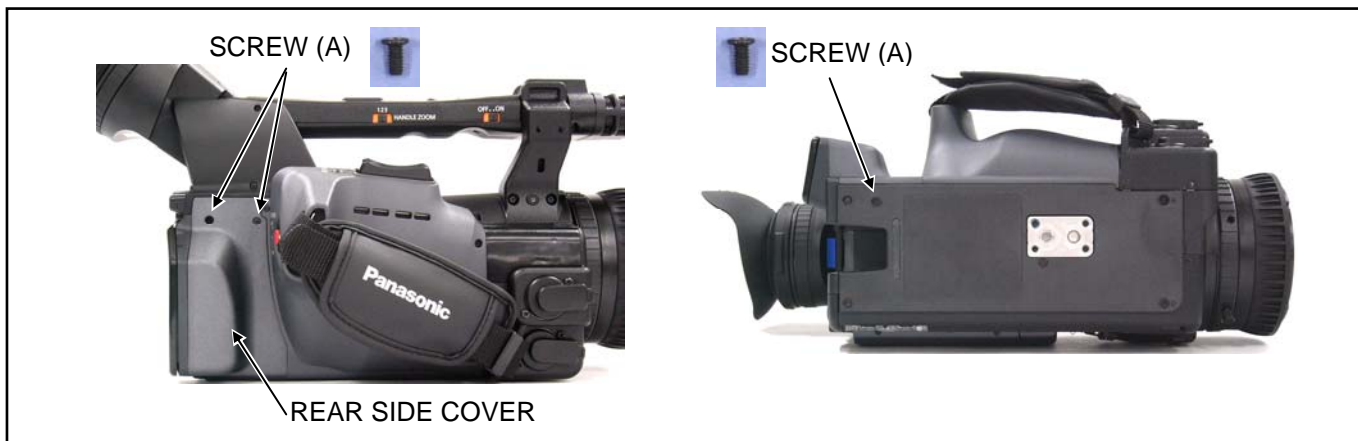


Figure 3-1

2. Unscrew the 2 screws (A) and remove the Shield Plate as shown in figure 3-2.
3. Disconnect a connector (A) as shown in figure 3-2.
4. Unscrew the 4 screws (B) and remove the Rear Jack ass'y as shown in figure 3-2.

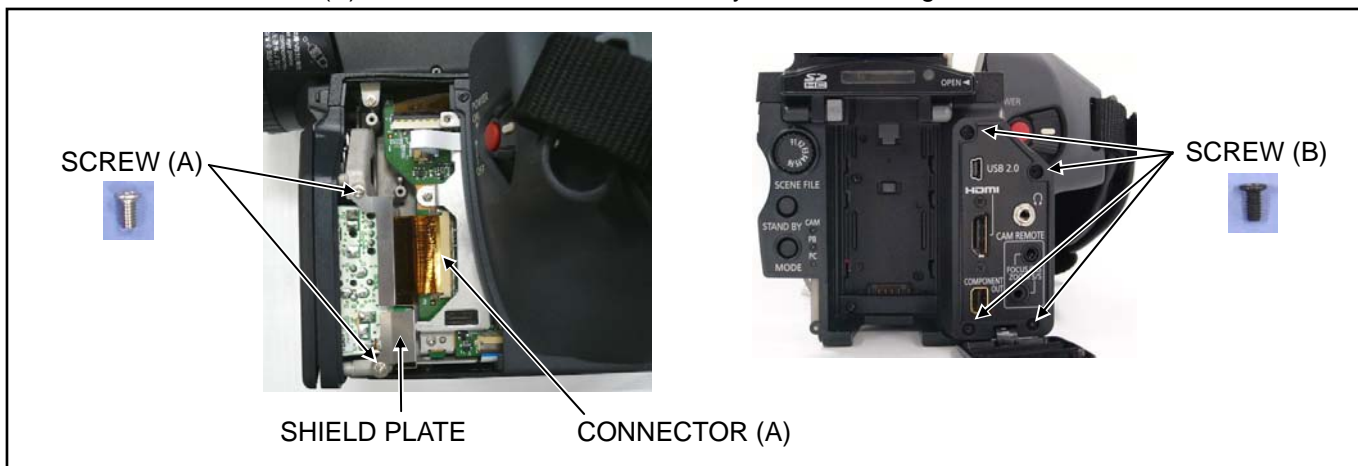


Figure 3-2

4. Removal of Grip Case Ass'y

1. Unscrew the 3 screws (A) and remove the REAR SIDE COVER as shown in figure 4-1.
2. Unscrew the 5 screws (B) and remove the BOTTOM COVER as shown in figure 4-1.

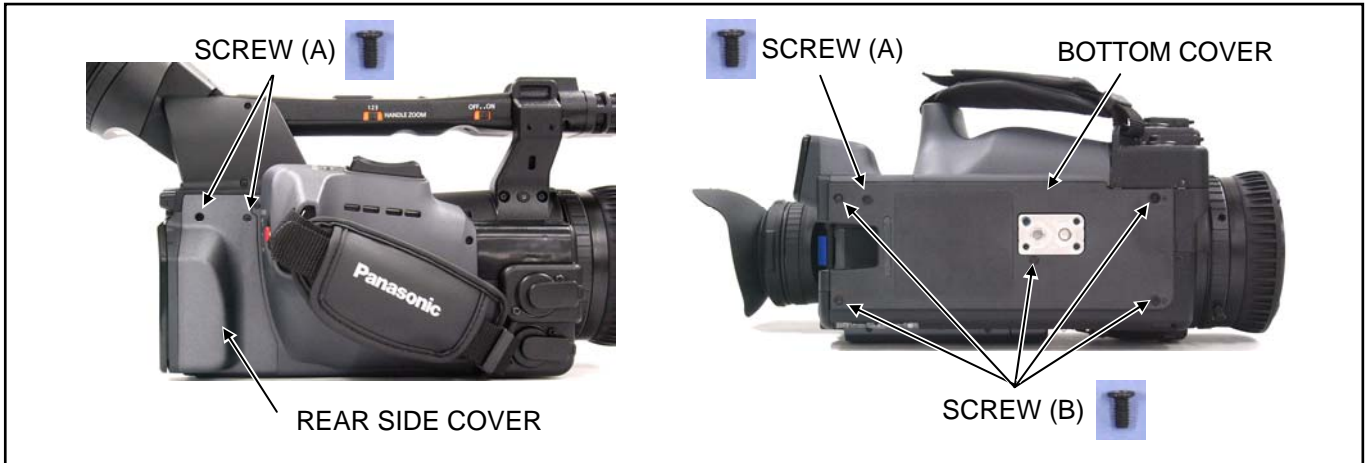


Figure 4-1

< Note for assembly >

In case of BOTTOM SHIELD PLATE is removed from BOTTOM COVER when you remove the BOTTOM COVER, please assemble the BOTTOM SHIELD PLATE on the position as shown in figure 4-2.

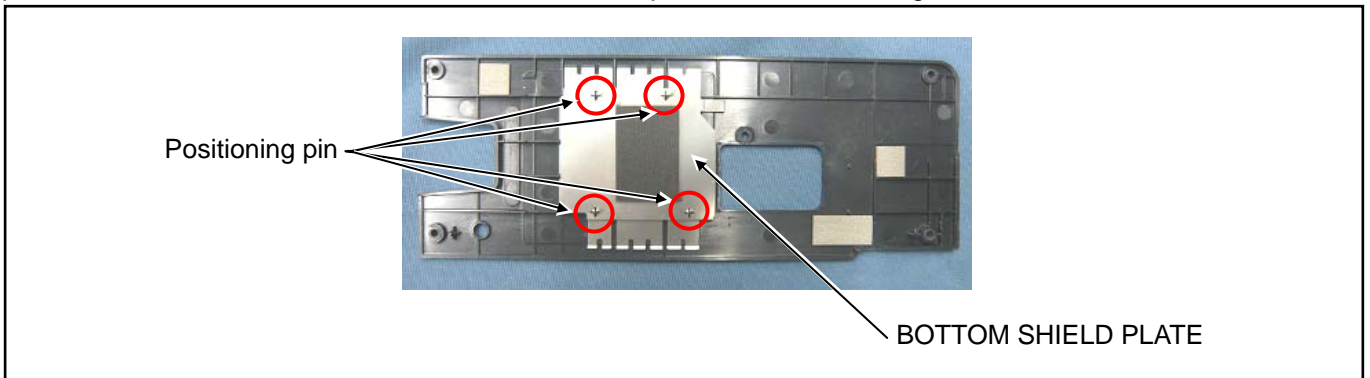


Figure 4-2

3. Remove the Grip Belt as shown in figure 4-3.
4. Disconnect a connector (A) and unscrews the 6 screws (C), then remove the Grip case ass'y as shown in figure 4-3.



Figure 4-3

< Note for assembly >

Tighten screw (D) in torque value [$20 \pm 5\text{cN}\cdot\text{m}$ ($2.0 \pm 0.5\text{kg}\cdot\text{cm}$)] when you assemble the Power SW angle on the Grip Case.

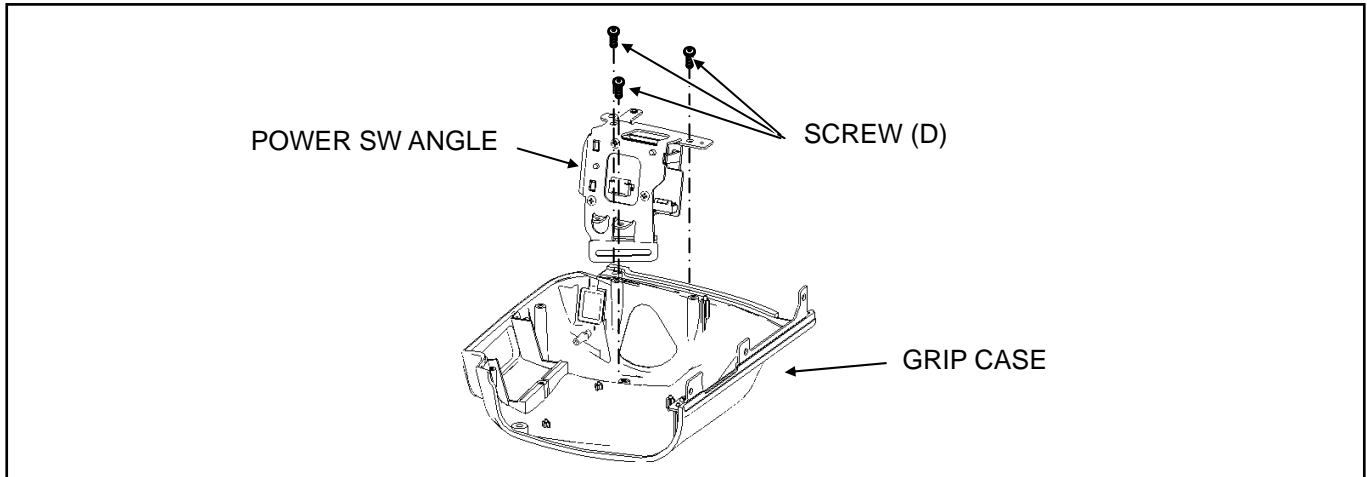


Figure 4-4

< Note for assembly >

Tighten screw (E) in torque value [$30 \pm 5\text{cN}\cdot\text{m}$ ($3.1 \pm 0.5\text{kg}\cdot\text{cm}$)] when you assemble the Tripod Frame on the main frame.

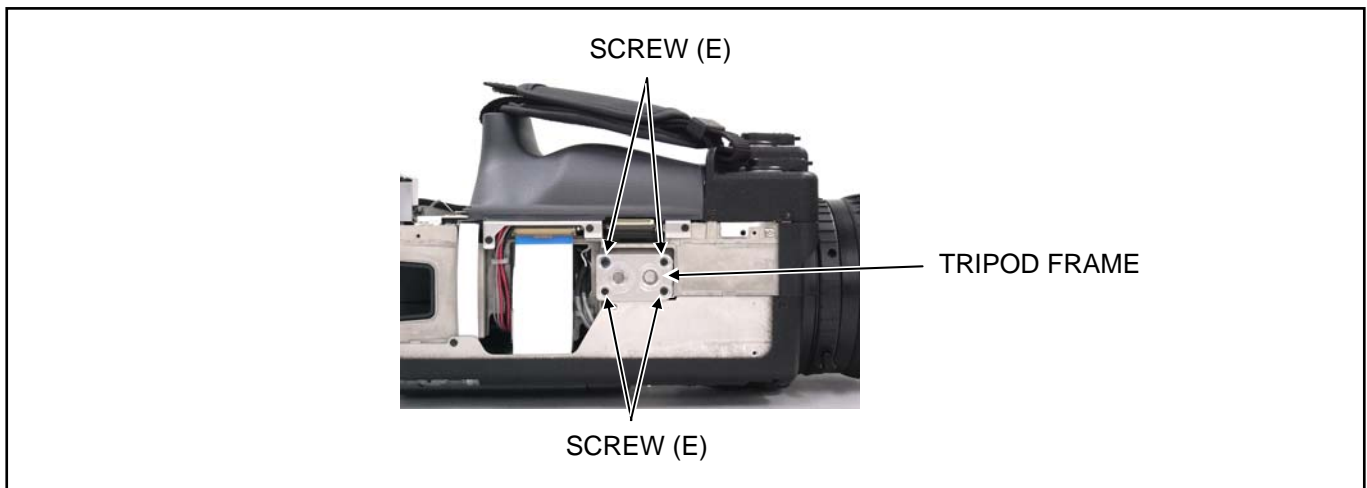


Figure 4-5

5. Removal of POWER P.C.B.

1. Remove the Grip case Ass'y.
2. Disconnect a connector (A) and unscrew the 3 screws (A) as shown in figure 5-1.

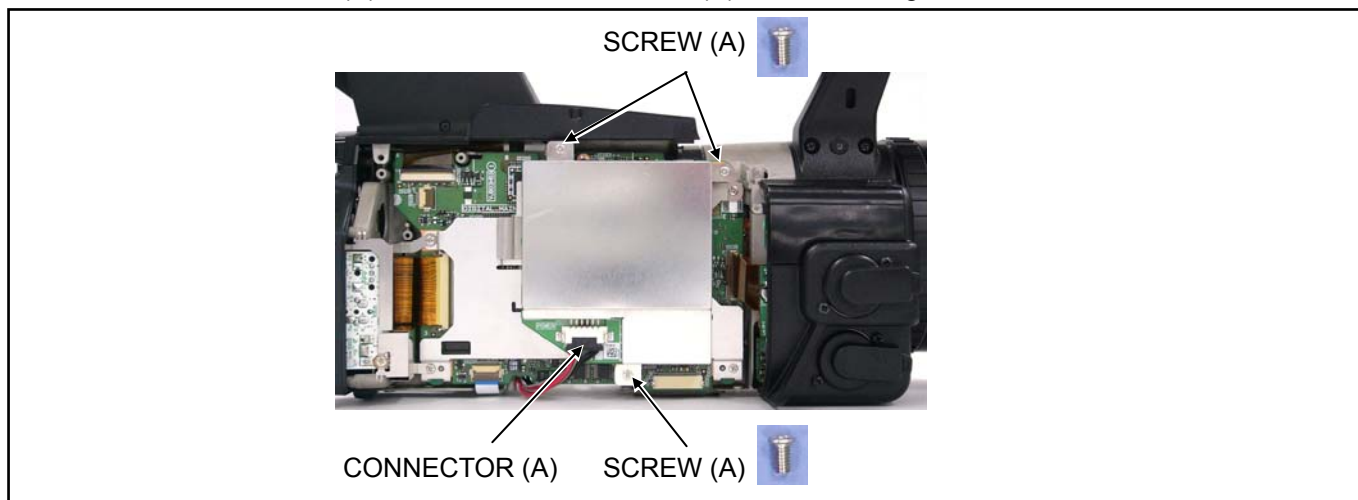


Figure 5-1

3. Disconnect the connector (B) combined with the DIGITAL MAIN P.C.B. and remove the POWER P.C.B. as shown in figure 5-2.

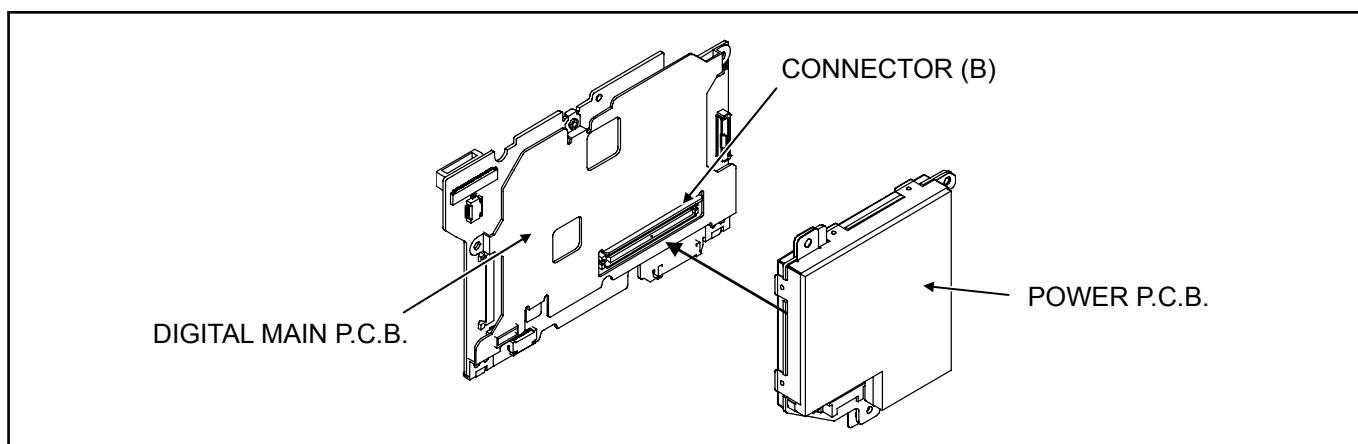


Figure 5-2

6. Removal of Side Jack Ass'y

1. Remove the Grip Case Ass'y.
2. Disconnect a connector (A) as shown in figure 6-1.
3. Unscrew the 4 screws (A) and a screw (B) and remove the Side Jack Ass'y as shown in figure 6-1.

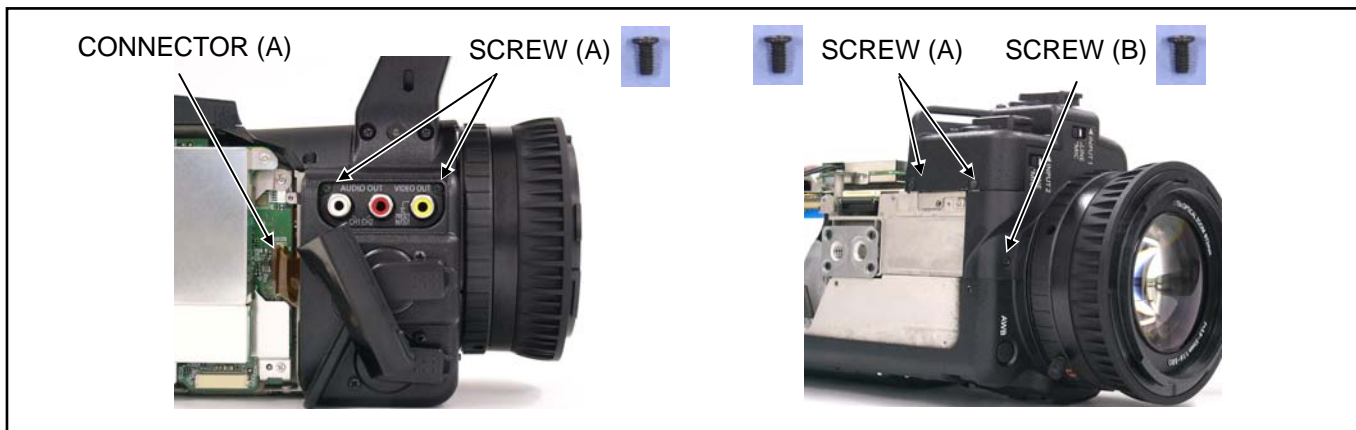


Figure 6-1

< Note for assembly >

Tighten screw (A) in torque value [$30 \pm 5\text{cN}\cdot\text{m}$ ($3.1 \pm 0.5\text{kg}\cdot\text{cm}$)] when you assemble the Side Jack Ass'y.

7. Removal of Handle Ass'y

1. Remove the VF Case (R) Ass'y.
2. Remove the Grip Case Ass'y.
3. Unscrew the 2 screws (A) and the VF Case (L) as shown in figure 7-1.
4. Disconnect a connector (A) as shown in figure 7-1.

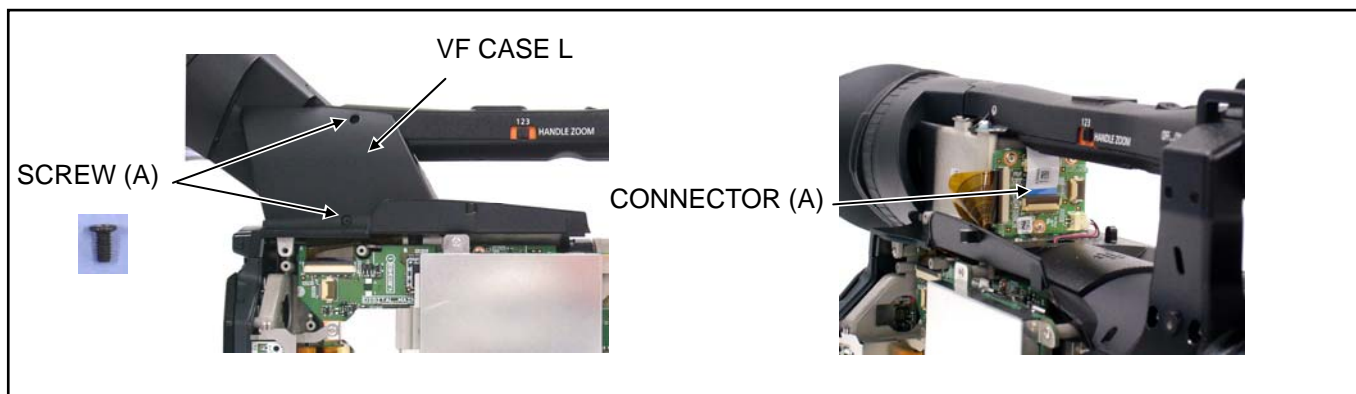


Figure 7-1

5. Unscrew the 3 screws (B) and remove the Lens Cover as shown in figure 7-2.

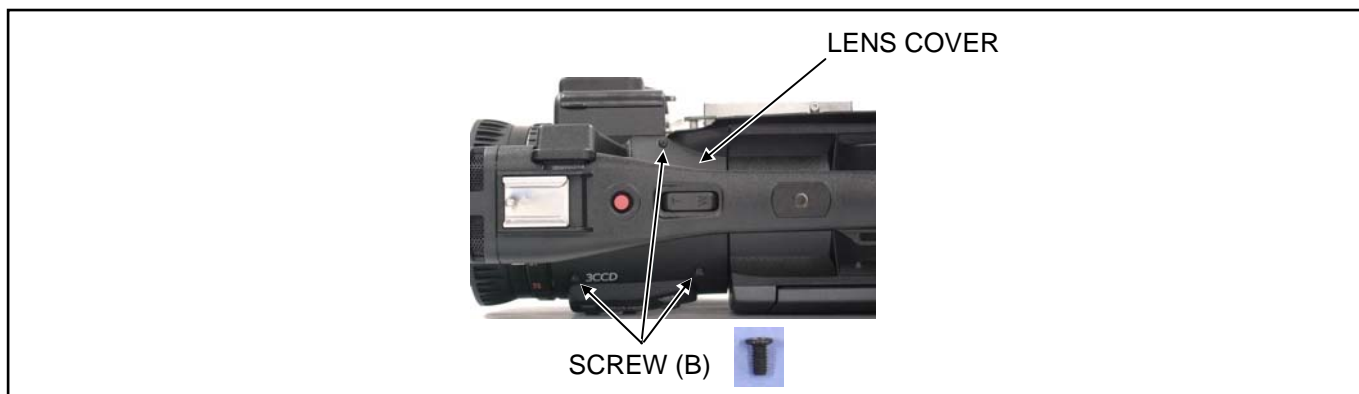


Figure 7-2

NOTE: Push the portion (A) with finger to remove the LENS COVER from cut and lacks parts of TOP CASE, when you remove the LENS COVER.

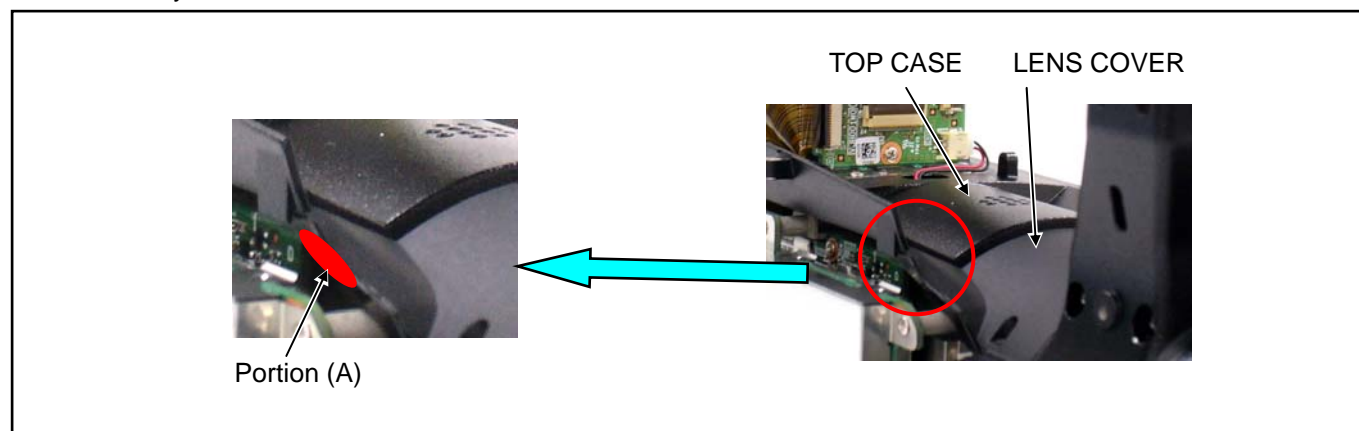


Figure 7-3

< Note for assembly >

Put the claw of LENS COVER to under the HANDLE STAY as shown in figure 7-4 when you assemble the LENS COVER.

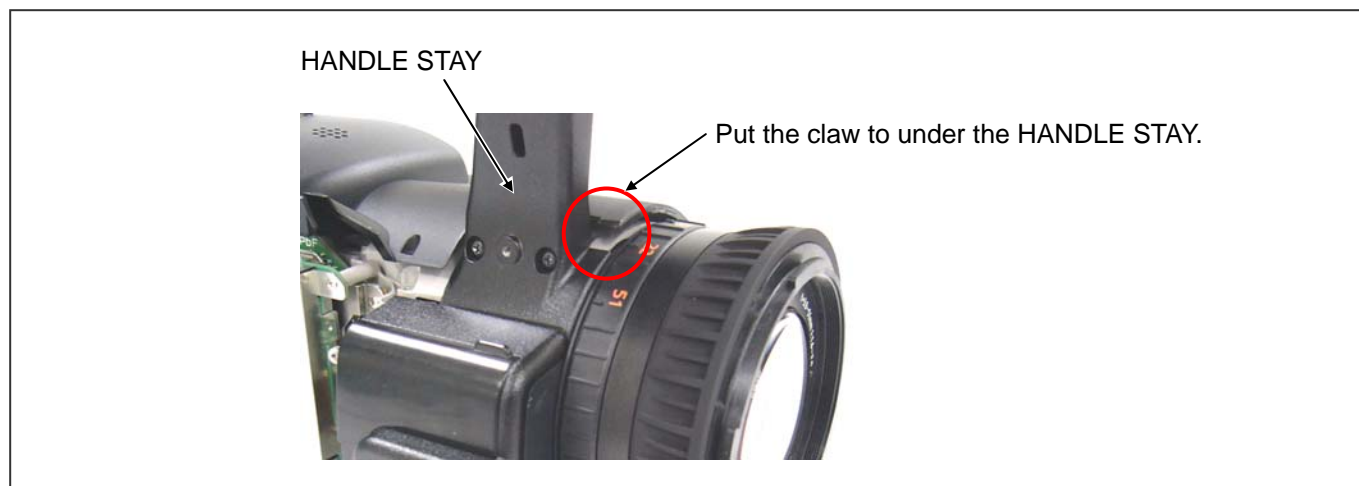


Figure 7-4

6. Unscrew the 2 screws (C) and 2 screws (D) and then remove the Handle Ass'y as shown in figure 7-5.

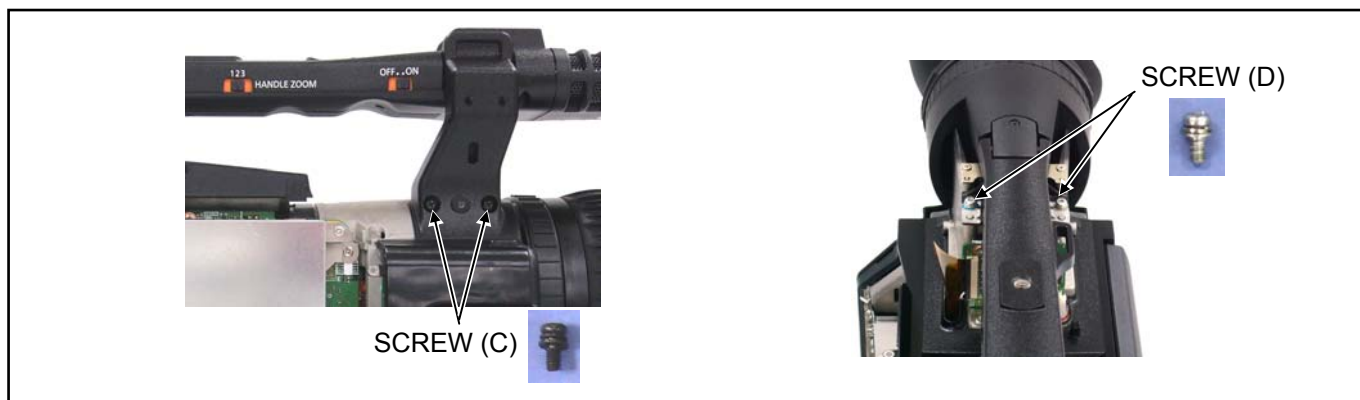


Figure 7-5

< Note for assembly >

- Tighten screws (C) and (D) in torque value [$40 \pm 5\text{cN}\cdot\text{m}$ ($4.1 \pm 0.5\text{kg}\cdot\text{cm}$)] when you assemble the Handle Ass'y.
- Tighten screws (E) in torque value [$40 \pm 5\text{cN}\cdot\text{m}$ ($4.1 \pm 0.5\text{kg}\cdot\text{cm}$)] when you assemble the Handle Stay on the Handle.

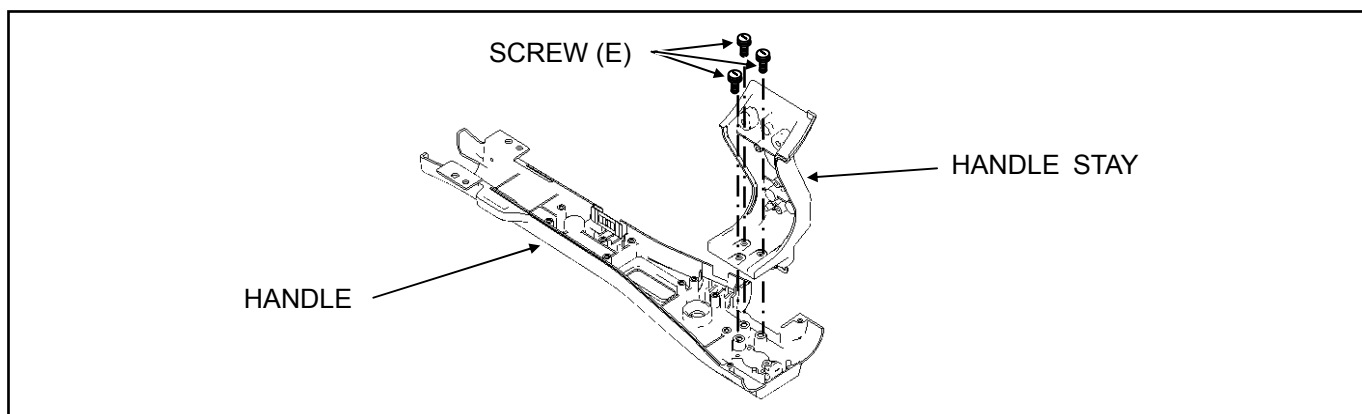


Figure 7-6

8. Removal of EVF Ass'y

1. Remove the VF Case (R) Ass'y.
2. Remove the Handle Ass'y.
3. Disconnect a connector (A) as shown in figure 8-1.
4. Unscrew the 2 screws (A) and the EVF Ass'y as shown in figure 8-1.

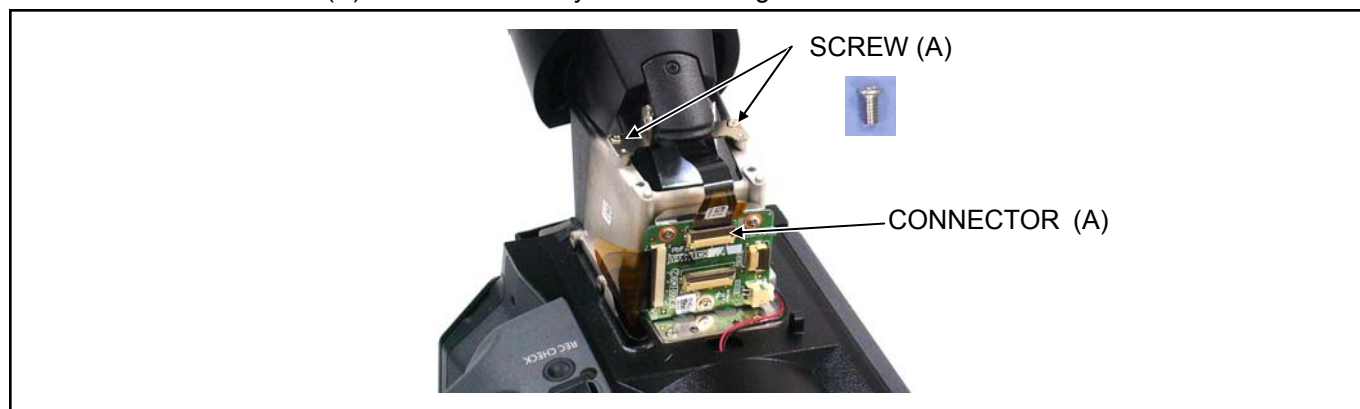


Figure 8-1

9. Removal of Side Case R S Ass'y

1. Remove the Grip Case Ass'y.
2. Unscrew the 3 screws (A) and remove the Lens Cover as shown in figure 9-1.

NOTE: Please refer to the page DIS-7 for notes of removal LENS COVER and assembly.

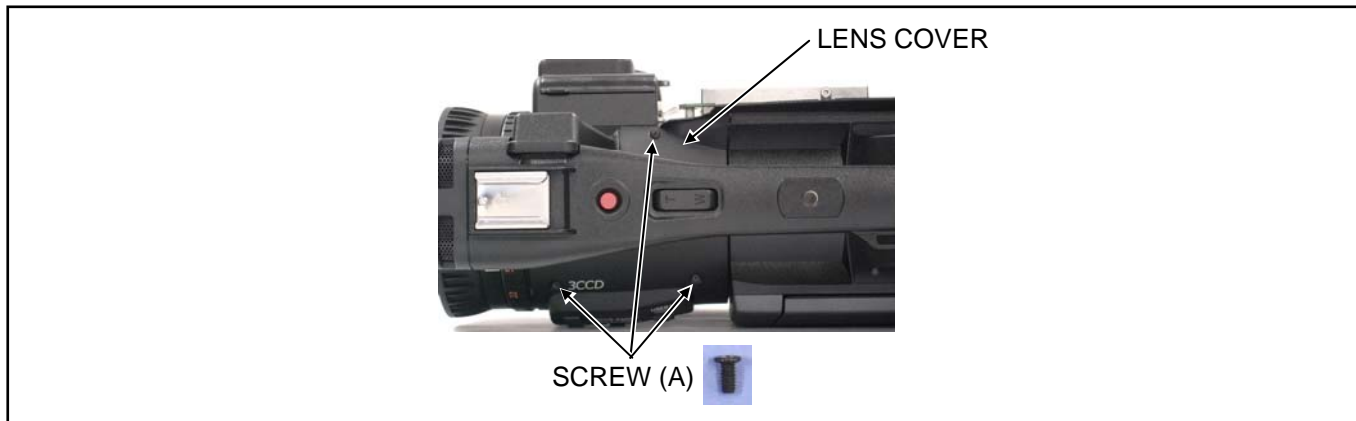


Figure 9-1

3. Disconnect a connector (A) and unscrew the 5 screws (B) as shown in figure 9-2.

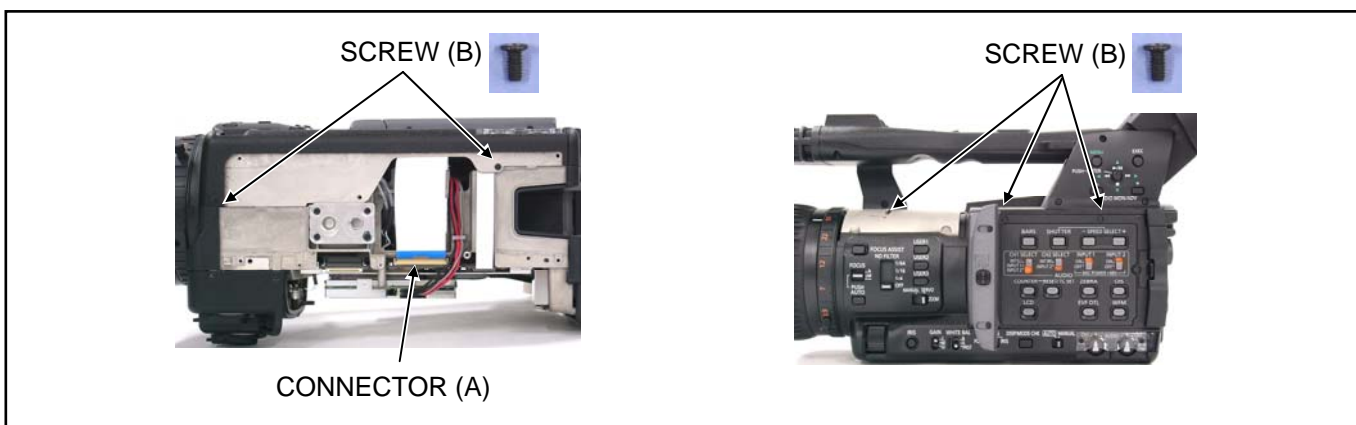


Figure 9-2

4. Open the Side Case R S as shown in figure 9-3.
5. Disconnect a connector (B) and remove the Side Case R S Ass'y as shown in figure 9-3.

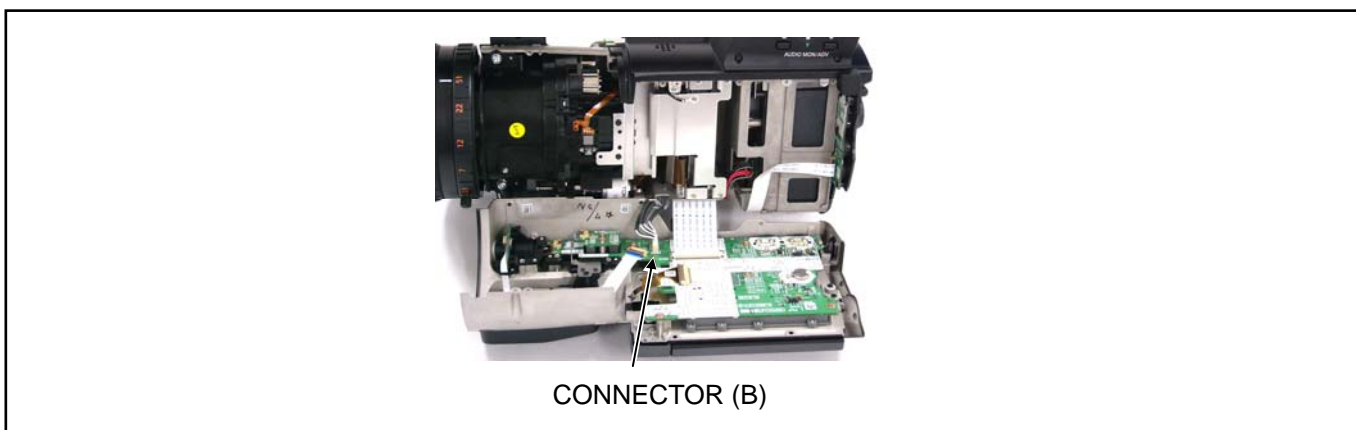


Figure 9-3

< Note for assembly >

Confirm that the ZOOM SW is set to SERVO side and assemble the SIDE CASE R S Ass'y.

10. Removal of CAMERA P.C.B.

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y.
3. Unscrew a screw (A) and remove the GND cable as shown in figure 10-1.
4. Unscrew the 2 screws (B) and remove the CCD Hold Angle as shown in figure 10-1

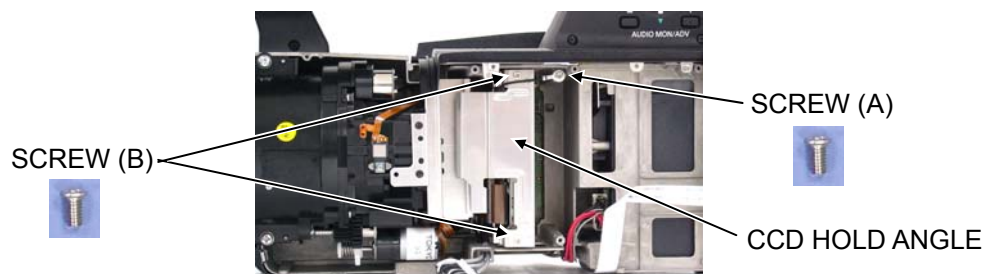


Figure 10-1

5. Disconnect the connector (A) and (B) and remove the CAMERA P.C.B..

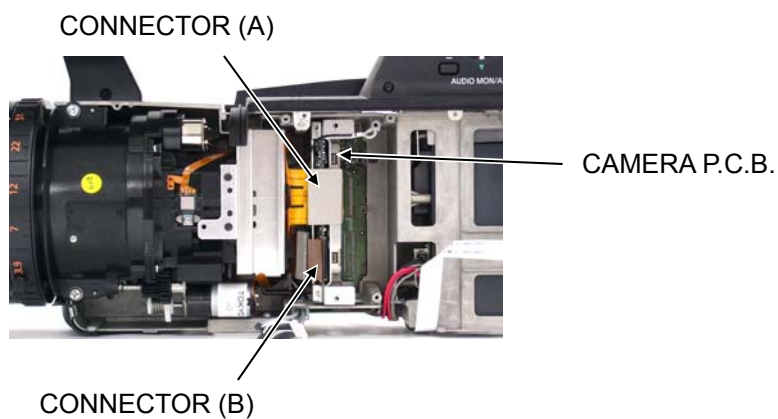


Figure 10-2

11. Removal of CAMERA LENS Ass'y

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y.
3. Unscrew a screw (A) and remove the GND cable as shown in figure 10-1
4. Unscrew the 2 screws (B) and remove the CCD Hold Angle as shown in figure 10-1
5. Unscrew the 2 screws (C) and remove the CCD Heat Sink as shown in figure 11-1.

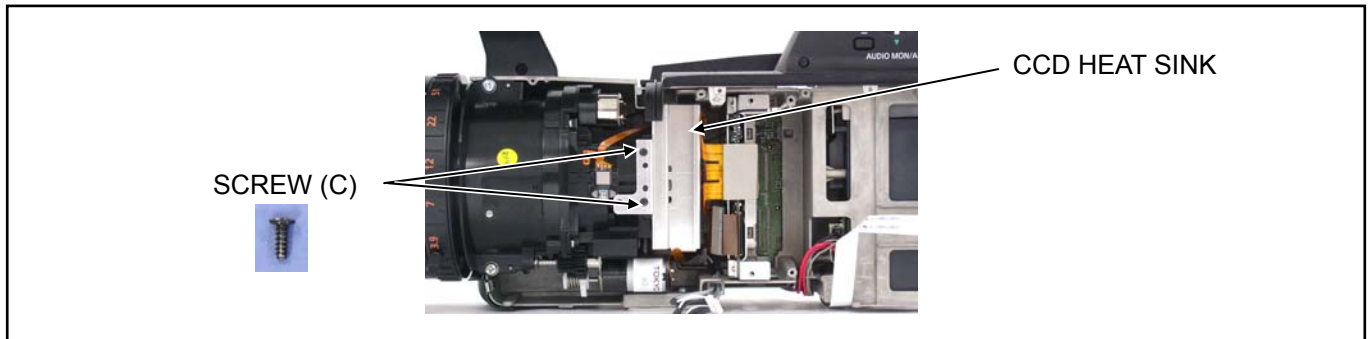


Figure 11-1

6. Disconnect the connector (A) and (B) as shown in figure 11-2.
7. Unscrew the 2 screws (D) and the CAMERA LENS Ass'y as shown in figure 11-2.

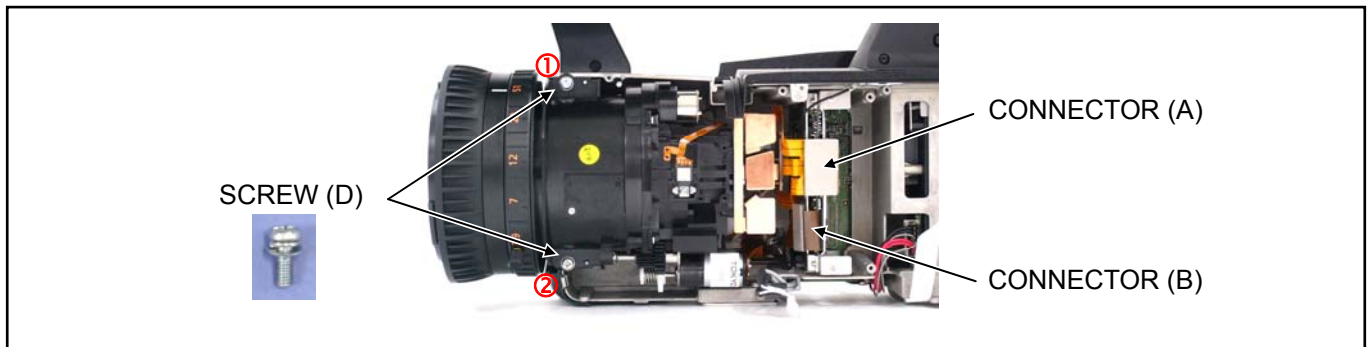


Figure 11-2

< Note when fixing camera lens unit >

Tighten screws (D) ① first and ② second.

1. Tighten the screw (D) - ① with torque driver and fix the CAMERA LENS unit.
2. Tighten the screw (D) - ② with torque driver and fix the CAMERA LENS unit.

* Don't use electrical driver.

Tightening torque
= 50cN·m ± 8cN·m

< Note when installing new camera lens unit >

When installing new camera lens unit of service parts (VXW0961/S), please attach the following parts at the same time.

* SHIELD TAPE A (VSC6120)	1Pc
* SHIELD TAPE B (VSC6121)	1Pc
* SHEET(HT) (VMX3730)	1Pc
* GASKET (J0ZZZ0000074)	1Pc
* GASKET (J0ZZZ0000053)	5Pc
* HEAT RADIATION SHEET (VSC5830)	3Pcs

Refer to Figure 11-3 to Figure 11-9 for the attaching procedure.

*** SHIELD TAPE A (VSC6120) for the attaching procedure**

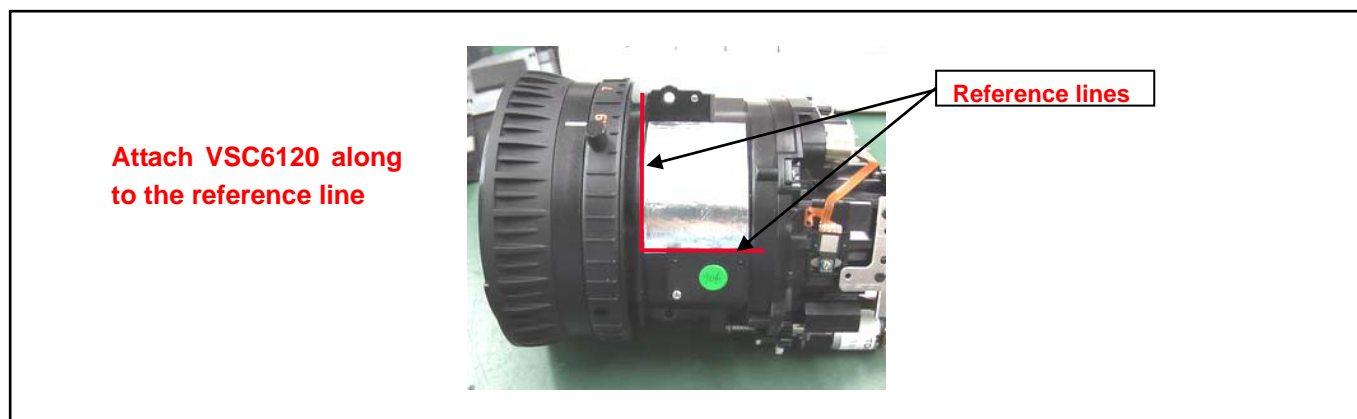


Figure 11-3

*** SHIELD TAPE B (VSC6121) for the attaching procedure**

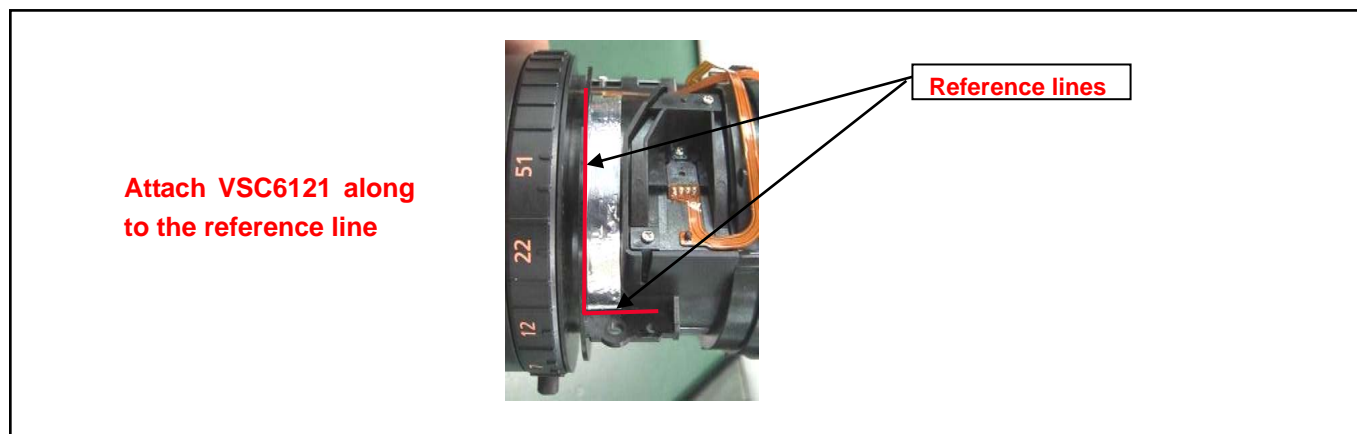


Figure 11-4

* SHEET(HT) (VMX3730) for the attaching procedure

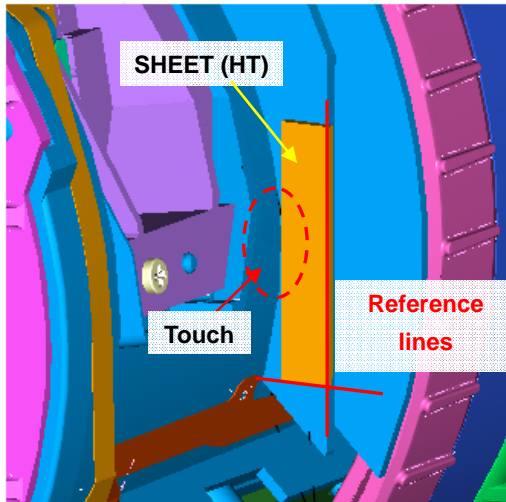


Figure 11-5

* GASKET (J0ZZZ0000074) for the attaching procedure

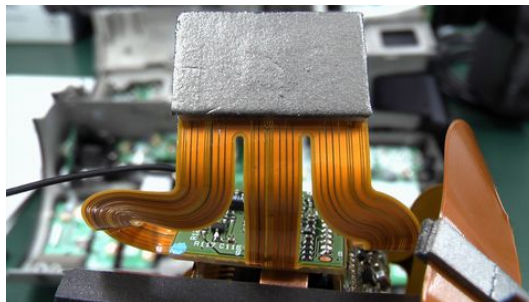
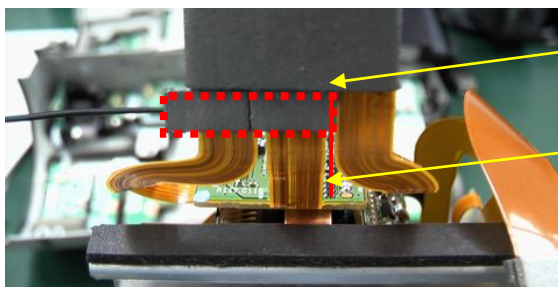


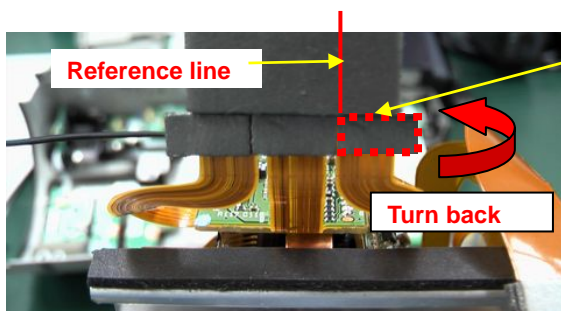
Figure 11-6

*3 pieces are attached as follows.



1st piece is attached along to the left side of reference line.

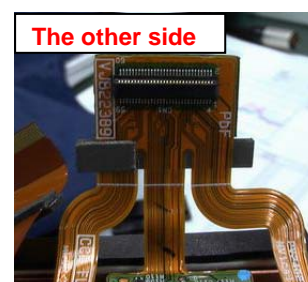
Reference line



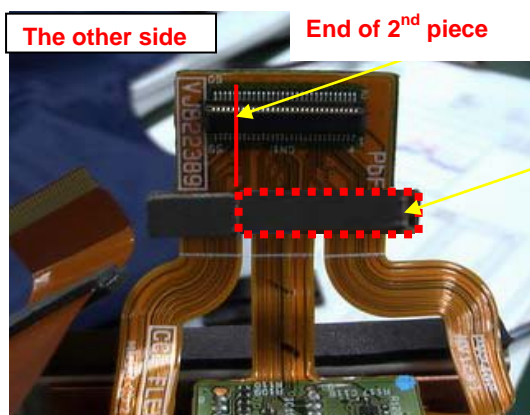
Reference line

2nd piece is attached along to the right side of reference line. Then turn back at the center of itself.

Turn back



The other side



The other side

End of 2nd piece

3rd piece is attached back side along to the end of 2nd piece.

Figure 11-7

* **GASKET (J0ZZZ0000053)** for the attaching procedure

2pcs / 5pcs

* 2 pieces are attached to both sides of flexible cable as shown in the picture.

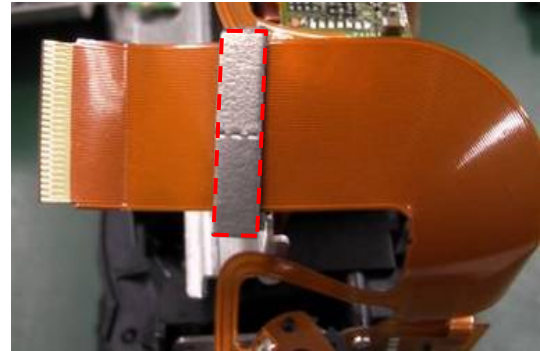
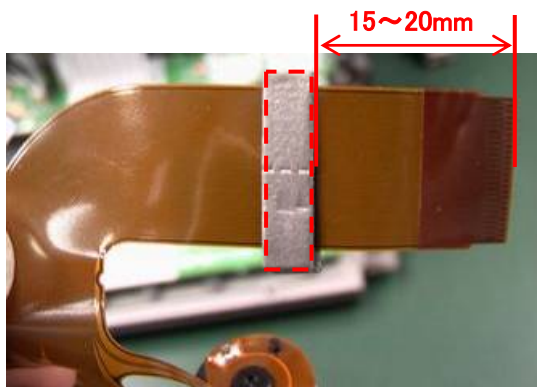
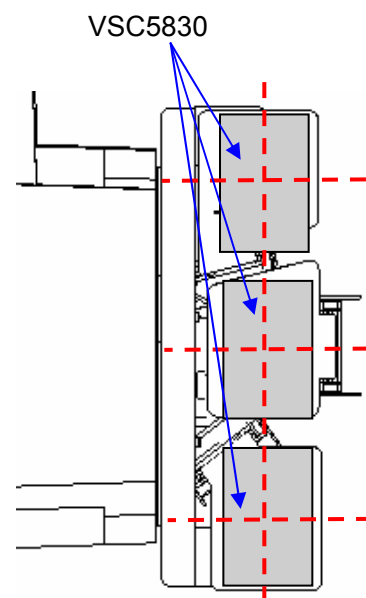
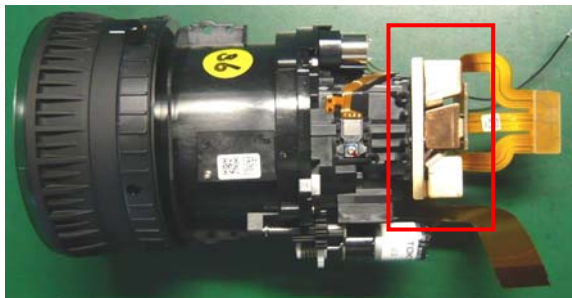


Figure 11-8

* **HEAT RADIATION SHEET (VSC5830)** for the attaching procedure

3 pieces are attached as follows.



Attach them on the center of 3 metal plates.

Figure 11-9

12. Removal of Zoom Motor Ass'y

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y
3. Remove the CAMERA LENS Ass'y.
4. Unsolder the each soldering point of flexible board and unscrew the 2 screws (A), and then remove the Zoom Motor Ass'y as shown in figure 12-1.

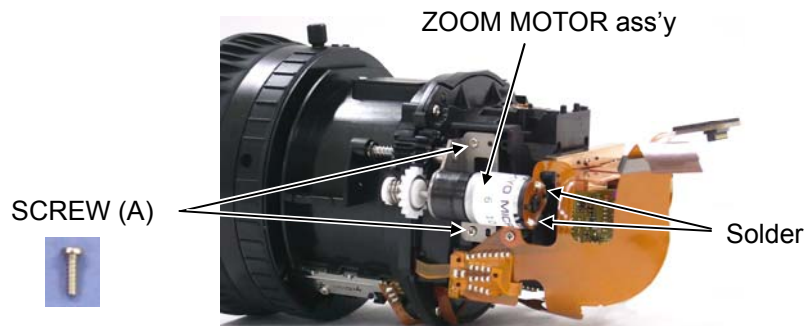


Figure 12-1

13. Removal of LCD Ass'y

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y.
3. Unscrew the 2 screws (A) and remove the Hinge cover as shown in figure 13-1.

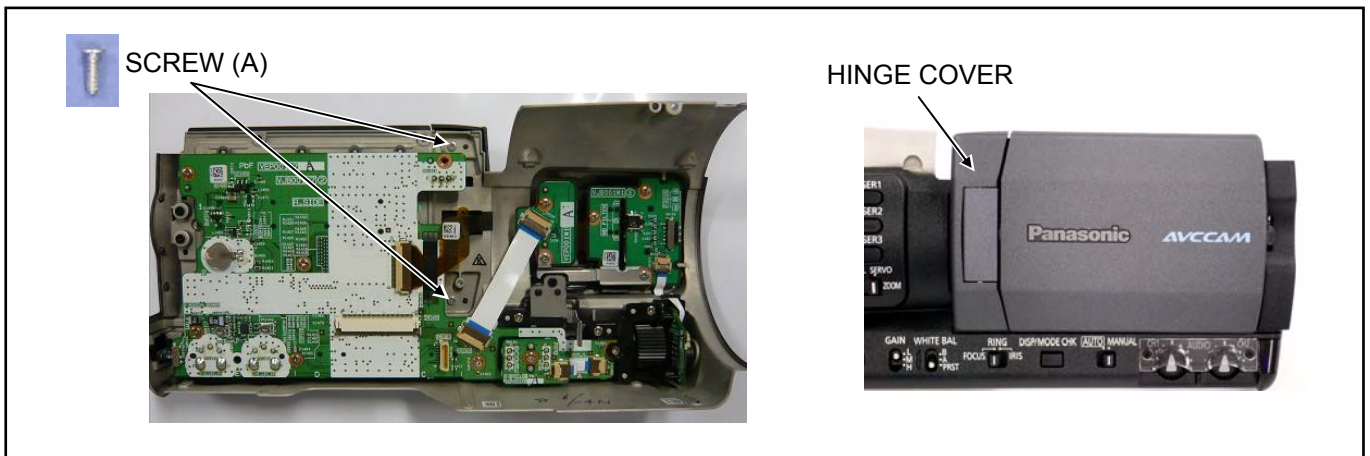


Figure 13-1

4. Remove the SUPPRESSION SHEET and connector (A) as shown in figure 13-2.
5. Disconnect a connector (A) and unscrew the 2 screws (B), and then remove the LCD Ass'y

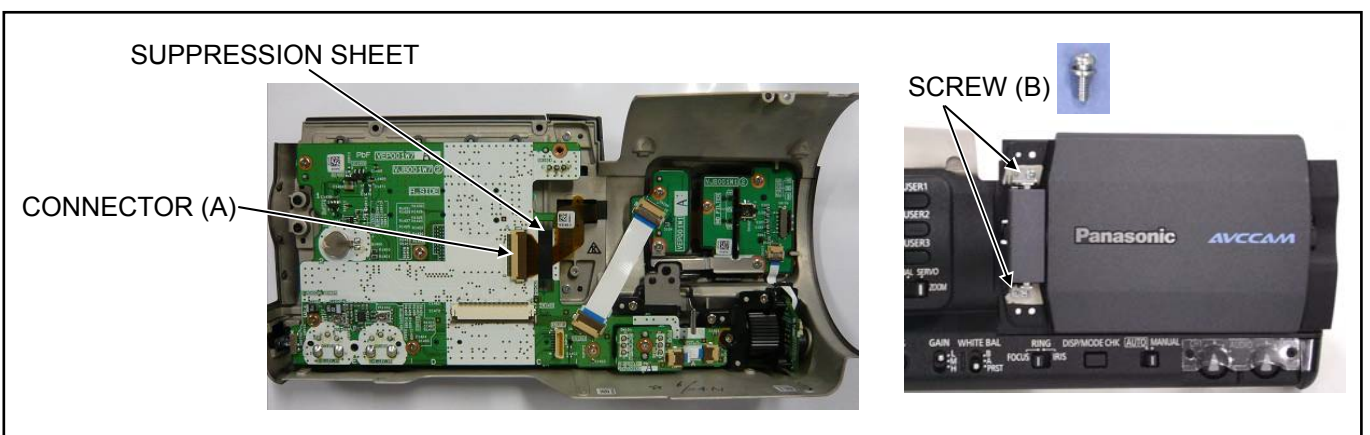


Figure 13-2

< Note for assembly >

Place SUPPRESSION SHEET on flexible cable as shown in figure 13-3.

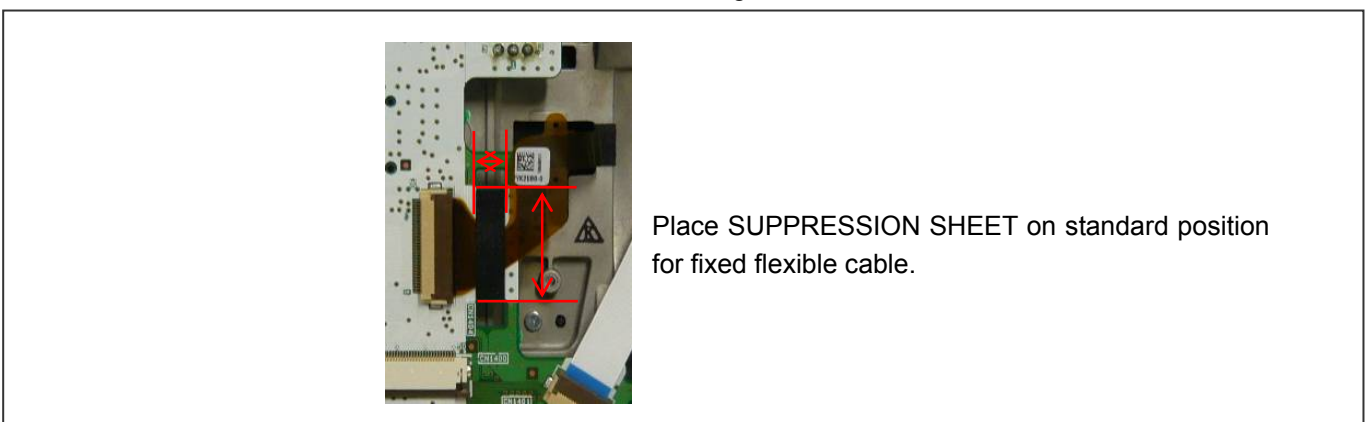


Figure 13-3

14. Removal of Top Set Ass'y

1. Remove the Grip Case Ass'y.
2. Remove the SIDE CASE R S Ass'y.
3. Unscrew the 2 screws (A) and remove the VF Case (L) as shown in figure 14-1.
4. Disconnect a connector (A) as shown in figure 14-1.

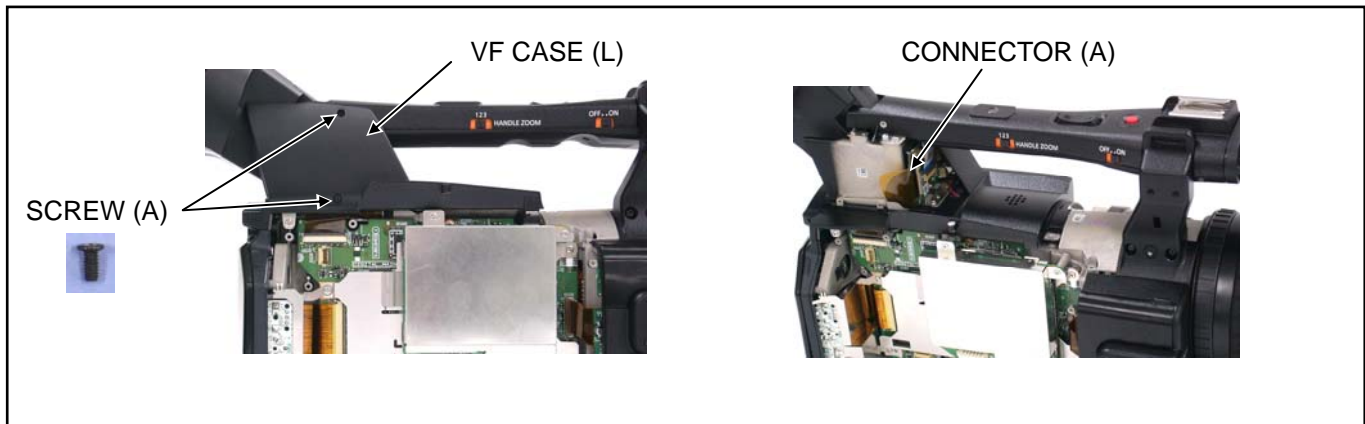


Figure 14-1

5. Unscrew the 2 screws (B) as shown in figure 14-2.

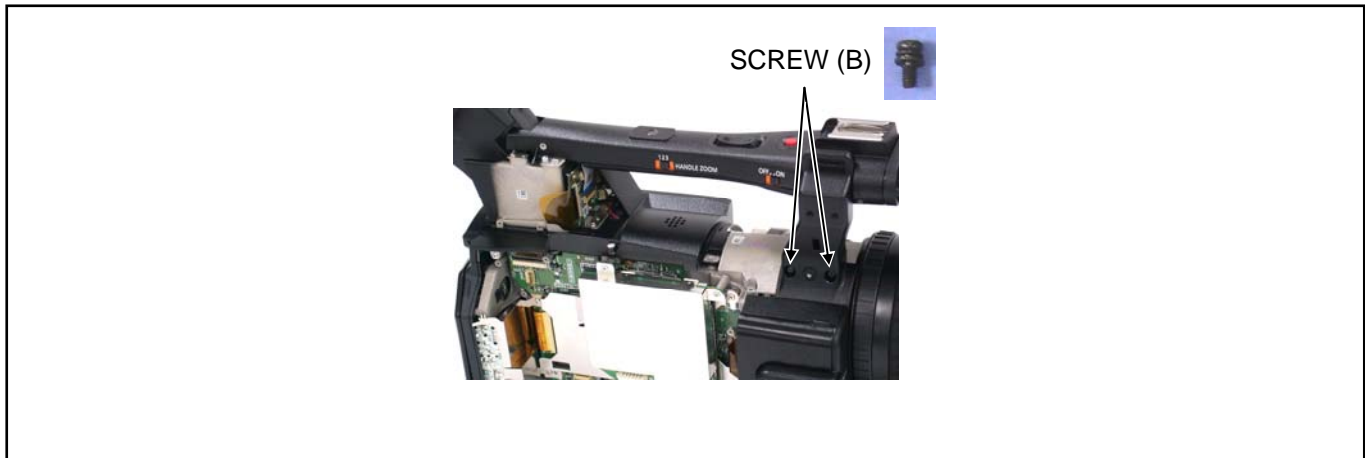


Figure 14-2

6. Unscrew the 4 screws (C) and remove the Top Set Ass'y as shown in figure 14-3.

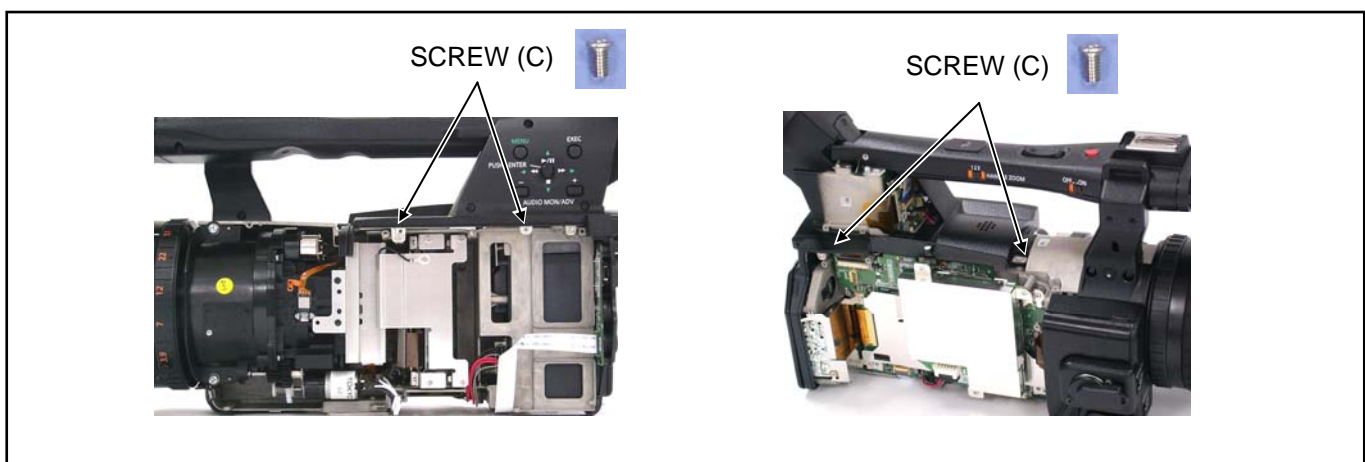


Figure 14-3

15. Removal of Back Case Ass'y

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y.
3. Remove the Top Set Ass'y.
4. Remove the Rear Jack Ass'y.
5. Disconnect the connector (A) and (B) as shown in figure 15-1.
6. Unscrew the 5 screws (A) and remove the Back Case Ass'y as shown in figure 15-1.

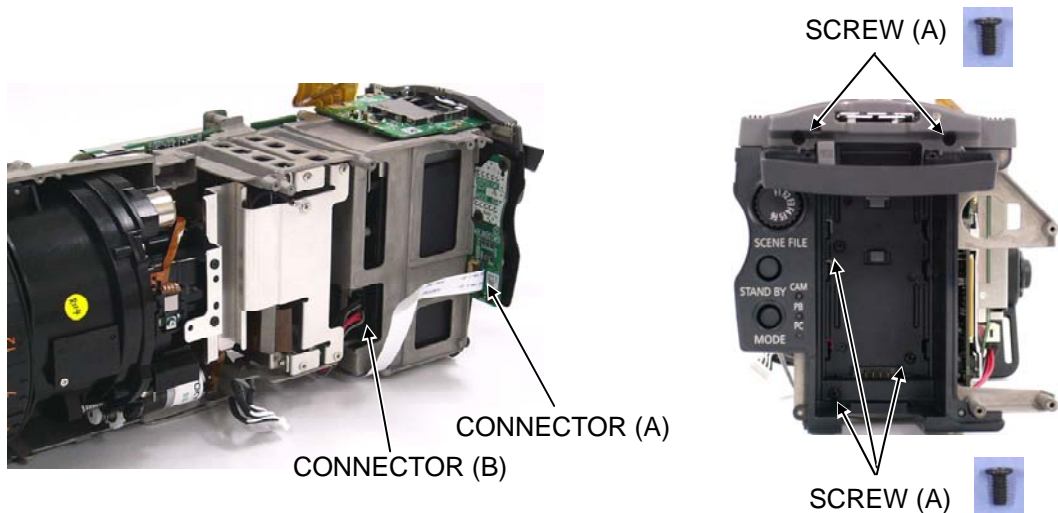


Figure 15-1

16. Removal of SD CARD P.C.B.

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y.
3. Remove the Top Set Ass'y.
4. Remove the Rear Jack Ass'y.
5. Unscrew the 3 screws (A) as shown in figure 16-1.
6. Disconnect the connector (A) combined with DIGITAL MAIN P.C.B. and remove the SD CARD P.C.B. as shown in figure 16-1.

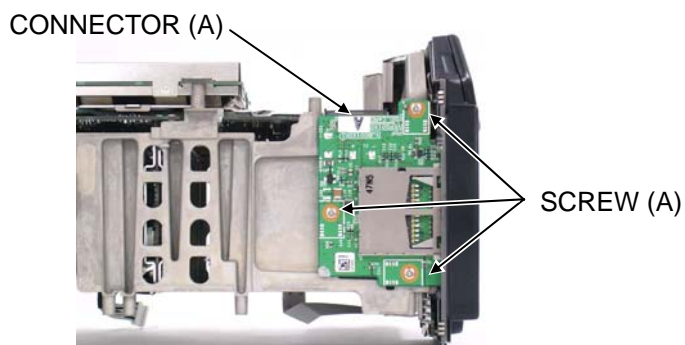


Figure 16-1

17. Removal of DIGITAL MAIN P.C.B.

1. Remove the Grip Case Ass'y.
2. Remove the Side Case R S Ass'y.
3. Remove the Top Set Ass'y.
4. Remove the Back Case Ass'y.
5. Remove the SD CARD P.C.B..
6. Remove the POWER P.C.B..
7. Remove the cable (A) from clumper as shown in figure 17-1.

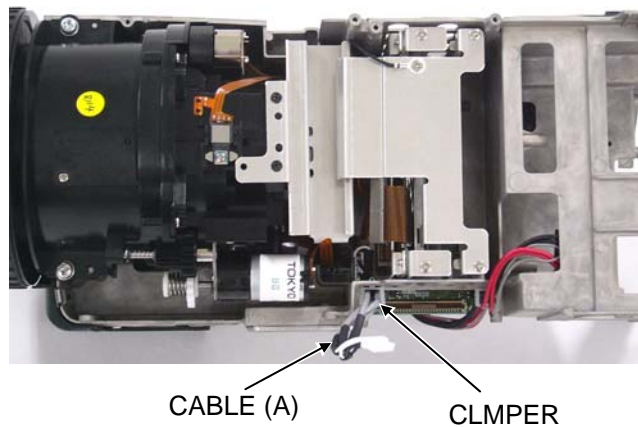


Figure 17-1

8. Disconnect the connector (A) and (B) as shown in figure 17-2.
9. Unscrew the 4 screws (A) as shown in figure 17-2.

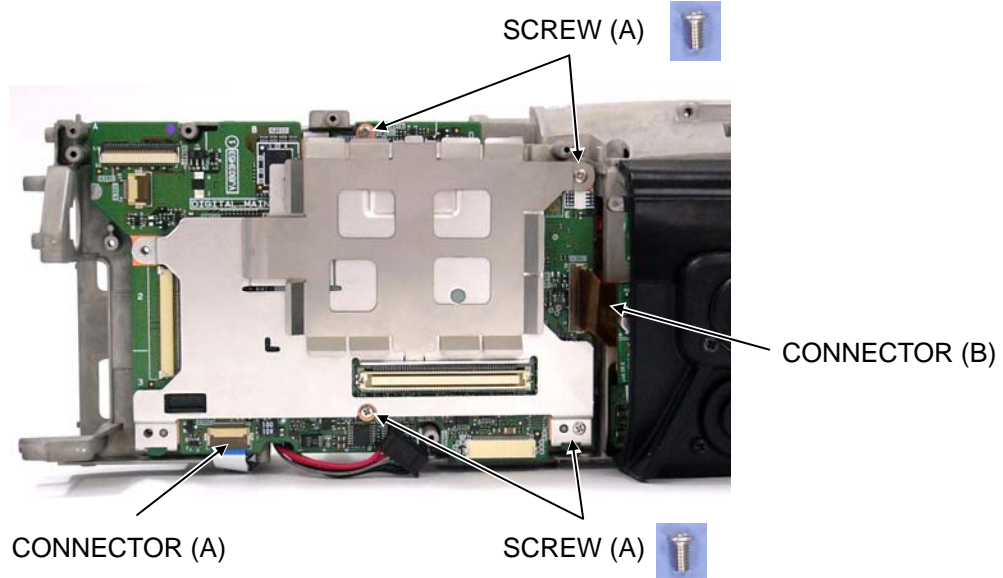


Figure 17-2

10. Disconnect the connector (C) and (D) combined with the CAMERA P.C.B. and remove the DIGITAL MAIN P.C.B. as shown in figure 17-3.

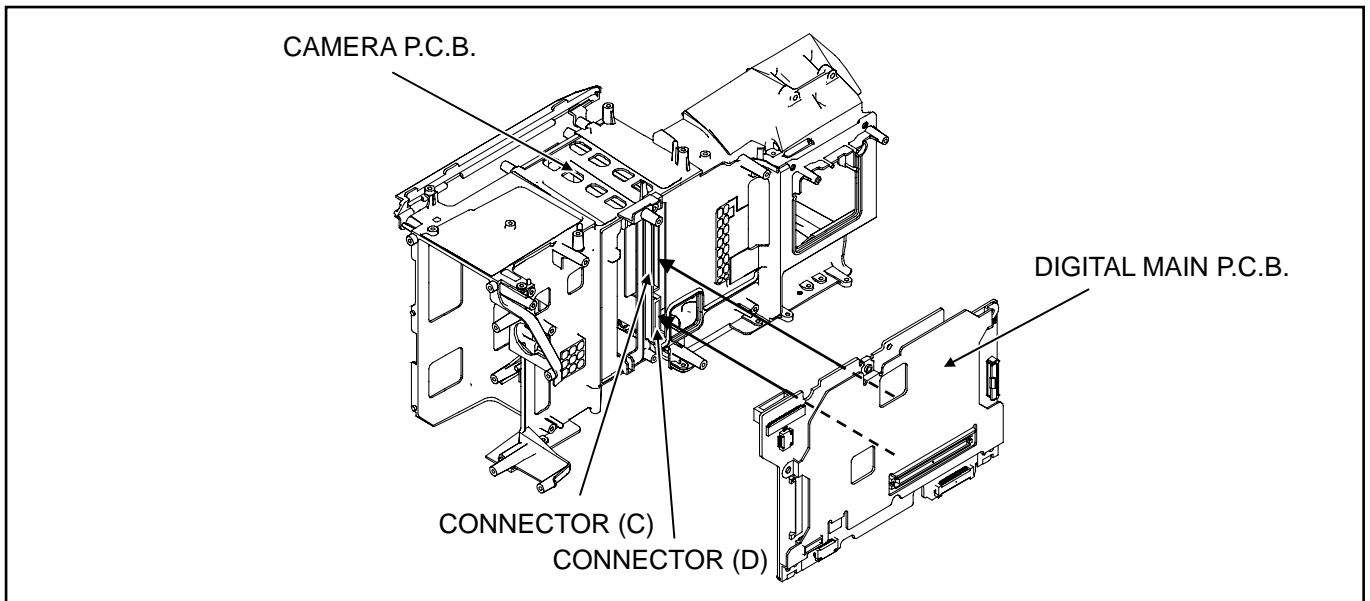


Figure 17-3

< Note for assembly >

Pass the cable (A) through hole of main frame and fix by the clumper as shown in figure 17-4, when you assemble the DIGITAL MAIN P.C.B..

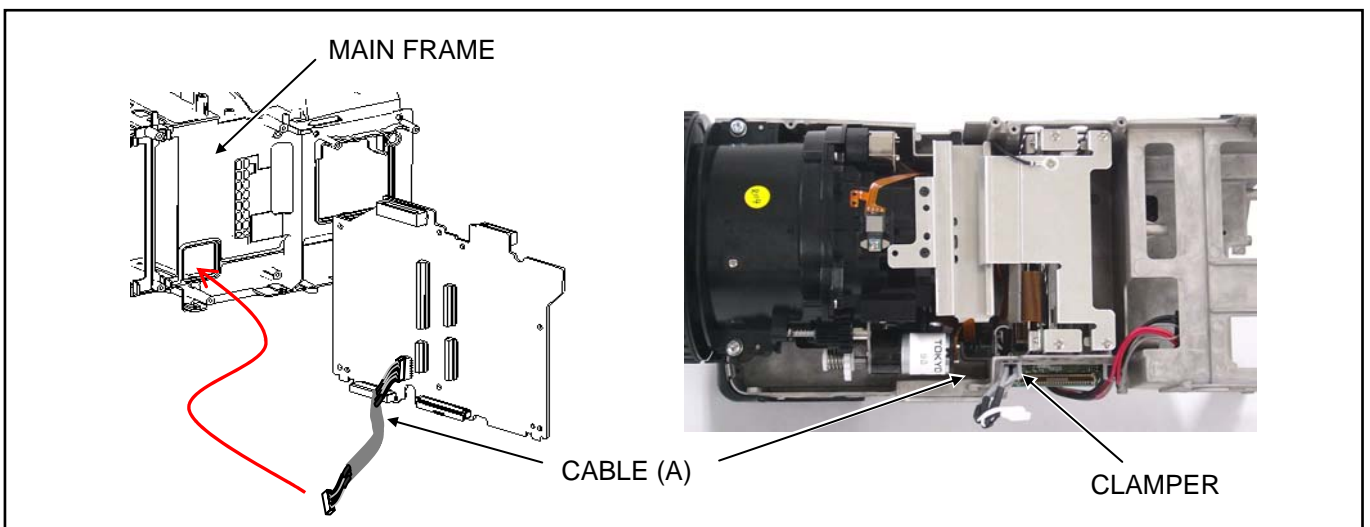


Figure 17-4